Service Bulletin No. 2922

MODEL	TYPE	SECTION/GROUP	DATE
D Series Coaches	Service Information	7 – Electrical	May 11, 2006

SUBJECT: COACH DIAGNOSTIC SOFTWARE

CONDITIONS: Parts may be purchased from MCI Service Parts, Louisville, Kentucky or from MCI Service Parts, Newcastle, Ontario.

Description:

MCI is releasing a Service Parts Chart, identifying service part numbers for diagnostic tools that can be purchased at the time of new D model coach delivery.

I/O CONTROLS Parts

Qty.	New P/N	Description
1	20-07-0016	Kit - Tools, I/O Controls Diagnostics
		Kit contents are:
1	20-07-0002	Software - I/O Controls
1	20-07-0005	Cable - Serial, DB9, F to M
1	20-07-0008	Tool - Circuit Tester, T2, I/O Controls
1	20-07-0009	Loader - T2 Program, I/O Controls
1	20-07-0010	Program Chip - T2, I/O Controls
1	20-07-0011	Writer / Verification - T2, I/O Controls
		Select one of the four available configurations:
1	20-08-0004	Kit - Diagnostic Tools, DDC S60 Engine, DDDL, V6.2
1	20-13-0005	Kit - Diagnostic Tools, Allison Transmission, Software V5.0
1	20-13-0004	Kit - Diagnostic Tools, ZF Transmission, Testman Pro & Cables
1	20-08-0007	Kit - Diagnostic Tools, CAT C13 ACERT® Engine, CAT Pocket Tec & Adapter
		Select Any:
1	20-07-0012	Tools, Amerex Fire Suppression System, Squib Simulator
1	20-07-0019	Tools, Amerex Fire Suppression System, Line Blow-Out
1	20-07-0013	Tools, USB Link, PC to Vehicle
1	20-07-0014	Tools, RS232 Converter, Cables and Adapter
1	20-07-0015	Tools, SmarTire, PDA With Diagnostic Software for Dual LED Display System
1	20-07-0007	Tools, SmarTire Full Function Display, DBR Software for Full Function System
1	20-04-0001	Tools, Bendix, ABS / Traction Control, ACOM 5.1

VANSCO CONTROLS Parts

Qty.	New P/N	Description
1	20-07-0017	Kit - Tools, Vansco Controls Diagnostics
		Kit contents are:
1	20-07-0001	Vansco USB / RS232 DLA
1	20-07-0005	Cable-Serial, DB9, F to M
		Select one of the four available configurations:
1	20-08-0004	Kit - Diagnostic Tools, DDC S60 Engine, DDDL, V6.2
1	20-13-0005	Kit - Diagnostic Tools, Allison Transmission, Software V5.0
1	20-13-0004	Kit - Diagnostic Tools, ZF Transmission, Testman Pro & Cables
1	20-08-0007	Kit - Diagnostic Tools, CAT C13 ACERT® Engine, CAT Pocket Tec & Adapter
		Select Any:
1	20-07-0012	Tools, Amerex Fire Suppression System, Squib Simulator
1	20-07-0019	Tools, Amerex Fire Suppression System, Line Blow-Out
1	20-07-0013	Tools, USB Link, PC to Vehicle
1	20-07-0014	Tools, RS232 Converter, Cables and Adapter
1	20-07-0015	Tools, PDA With Diagnostic Software, SmarTire for Dual LED Display System
1	20-07-0007	Tools, SmarTire Full Function Display, DBR Software for Full Function System
1	20-04-0001	Tools, Bendix, ABS / Traction Control, ACOM 5.1

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Service Information:

1. New parts will be available for service replacement.

NOTE

A laptop computer with Windows XP is required when interfacing with coach systems.

Read the respective user manual entirely before attempting to use any software.

Consult the software manufacturer for technical assistance.

Tools– VANSCO Multiplex System
P/N 20–07–0017 / Kit–Vansco Controls
–Negates the need to buy 20–07–0013 & 20–07–0014.
–USB DLA – provides interface between USB and J1939 and/or J1708.
–9 Pin Deutsch Cable – 9 Pin Deutsch (J1939 and J1708) to DLA connection.
–7 Pin Deutsch Cable – 7 Pin Deutsch (J1708 only) to DLA connection. This cable also contains a Cannon 4 pin J1939 connector.
–Power Cable – 2 pin power cable for use with the 7 pin Deutsch cable.
–J1939 Cable – 4 pin Cannon J1939 connector to 3 pin Deutsch connector.
–Deutsch Y Connector.
–Cannon Y Connector and 120 Ohm Cannon Terminator.
–Software CD.

Tools– Engine Diagnostics, Detroit Diesel
P/N 20–08–0004 / Kit–DDC Engine Tools
Kit contains p/n 20–08–0001, DDDL V6.2
–Coverage for DDEC V Release 2, DDEC IV Release 39 and VCU Release 14.21
–New data included in the Trip, Monthly and Life to Date Reports.
–Updated VCU/PLD instrumentation to speed up data rates.
–Integrated MBE troubleshooting guide to enhance diagnostic efficiency.

Tools– Engine Diagnostics, CAT
P/N 20–08–0007 / Kit–CAT Engine Tools
Kit contains p/n 20–08–0002, CAT Pocket Tec W/9–pin Cable
Kit contains p/n 20–08–0003, Cable–CAT Pocket Tec, 6–pin Adapter
–Programmable engine parameters allow you to customize the configuration of your engine.
–Review the status of electronic engine conditions.
–For example, you can view pressures, temperatures, and speeds as well as information like engine load factor, fuel economy, desired engine speed, estimated fuel rate, vehicle speed limit, and more.
–Quickly access active and logged diagnostic codes and advice on what to do or how to proceed.
–Review the lifetime totals for fuel economy, distance, average speed, fuel consumption, engine hours, and more. Trip accesses the same data and it can be reset.
–Easily track your oil change preventive maintenance intervals.

Tools– Transmission Diagnostics, Allison
P/N 20–13–0005 / Kit–Allison Transmission Tools
Kit contains p/n 20–13–0001, Software Allison V 5.0
–User selected views of multiple transmission parameters.
–Support for record/playback/e–mail of data logs.
–Diagnostics with links to support information.
–A Windows® style graphical user interface.
–Interpretation of J1939/J1850.
–Training Videos included with application.
–Automated application update capability via the World Wide Web.
–Integrated ”Help” function.
–Animated introduction screen.
–Security – application authorization.
–View Active and Historical Diagnostic Trouble Codes (DTCs).
–User configurable Snapshot and Print functions.
–Code driven hotlinks to embedded WTEC II, WTEC III, and 1000/2000/2400 SeriesTM Troubleshooting Manuals.
–Demo Mode which allows the user to practice using the program without being connected to a vehicle.
–Required in order to upload the new v5.2.0 update to allow communication with the new Gen IV controller.

Tools– Transmission Diagnostics, ZF
P/N 20–13–0004 / Kit–ZF Transmission Tools
Kit contains p/n 20–13–0003, Testman Pro, W/DPA05 & Cables
–The ZF Testman pro supports preventative maintenance as a modern maintenance tool, allowing maintenance to be scheduled early and costs to be saved. This is because errors are detected on time: before they appear.
–ZF Testman pro is a diagnostic system that makes a transparent transmission out of every ZF transmission with control electronics. Using the ZF Testman pro, all the important data relevant to performance can be quickly and easily called up on the computer screen at any time.
–At the same time tests can be performed on the idle vehicle and during operation. Via the recording of operational data and their subsequent evaluation important figures of the driveline can be received. Therefore, unscheduled downtimes are avoided.
–If an error does slip in one time, it is securely removed with the ZF Testman pro. By reading the error memory, the error is localized, displayed on a schematic drawing, and extensive instructions to localize the error and remove it are listed.

Tools– Amerex Fire Suppression System
P/N 20–07–0012 / Amerex Fire Suppression– Squib Simulator.
Used to bypass the retardant bottle squib for system checks.

Tools– Amerex Fire Suppression System
P/N 20–07–0019 / Amerex Line Blow-Out
Used to remove retardant from lines after a discharge.
Required once a discharge has occurred. Retardant left in the lines will absorb moisture and harden, leading to blockage during the next discharge.

Tools– USB to Coach Interface Module
P/N 20–07–0013 / Kit–USB Link, PC to Vehicle
Kit contains p/n 20–13–0002, Nexiq Interface Module
–USB Connection to Coach 1708.
–Only for non–Vansco users with USB capability.
–Negates the need to buy 20–07–0014.
–Required for DDC, Bendix & Wabco software.
–Bluetooth compatible.

Tools– RS232 to Coach Interface Module
P/N 20–07–0014 / Kit–RS232 Converter, Cables and Adapter
Kit contains p/n 20–07–0003, Converter Module RS232.
Kit contains p/n 20–07–0004, Cable 6–pin, RS232.
Kit contains p/n 20–07–0006, Cable 9–pin, RS232.
–Low Cost Serial Port Connection to Coach 1708.
–For use with older laptops with no USB connection.
–Negates the need to buy 20–07–0013.
–Required for DDC, Bendix & Wabco software.

Tools– SmarTire Dual Light Display"
P/N 20–07–0015 / SmarTire PDA W/Diagnostic Software for Dual LED Display System"
The SmarTire TPM Configuration Hand Tool is a handheld computer (PDA) running a condensed version of the SmarTire DBR Tool software to interface with the SmarTire J1939 Receiver (PN 200.0153) and perform sensor maintenance and system configuration.

Tools– SmarTire Full Function Display
P/N 20–07–0007 / SmarTire DBR Software for Full Function Display System
The SmarTire DBR Tool is a software tool designed to allow the user to perform the following main functions for TPM systems that include the SmarTire J1939 Receiver (PN 200.0153). It also provides the following main functions:
–Accessing tire and sensor operating parameters – Tire Inflation Pressure, Internal Tire Temperature, Sensor Battery
–Voltage and Transmission Reception Performance.
–Reviewing and clearing the fault codes.

Tools– Bendix ABS/Traction Control
P/N 20–04–0001 / Kit–Software Bendix ACOM 5.1
ACom is a personal computer (PC)–based software tool designed for the Bendix AntiLock and Traction brake system. It is used in conjunction with a hardware interface adapter and allows a maintenance technician to perform a number of tasks using commands from a personal computer. With ACom, a maintenance technician can:
–Locate and diagnose current faults.
–Test individual components for proper operation.
–Obtain, view, and store a history of specific fault occurrences.
–Record performance of components during actual vehicle operation.